

SEC0106803:Nursery and Gardening

GU Four Year Under Graduate Programme, 2023-24

Subject: Botany Skill Enhancement Course

Semester: First

Course Name: NURSERY AND GARDENING

-by Department of Botany, Mangaldai College

Theory (Total Marks: 30, Credit: 2); Practical (Total Marks: 20, Credit: 1)

Course Outcome:

1. Students will develop entrepreneurship skill through establishing their own Nursery Units.
2. Acquire skills for production, maintenance and propagation techniques of different horticulturally important plants.
3. Acquire skills to establish and maintain different types of Gardens.

Theory(Total Marks: 30, Credit: 2)			
Unit	Content	No. of Classes	Marks
Unit 1	Introduction: Nursery definition, objectives and scope; building up of infrastructure for nursery; planning and seasonal activities.	4 Lectures	3
Unit 2	Seed: Causes and methods of breaking dormancy; Seed banks, sowing/raising of seeds and seedlings, transplanting of seedlings.	6 Lectures	6
Unit 3	Vegetative propagation: air-layering, cutting and grafting, selection of Cuttings, collecting season, treatment of Cuttings, rooting medium and planting of Cuttings; hardening of plants, green house, shade house and glass house.	10 Lectures	12
Unit 4	Gardening: definition, objectives and scope; different types of gardening. Gardening operations: Soil laying, manuring, watering, management of pests and diseases, harvesting.	10 Lectures	9
Practical (Total Marks: 20, Credit: 1)			
1. Familiarization of Nursery and gardening tools 2. Cutting, Layering and Grafting techniques 3. Preparation of different types of potting soil 4. Field visit to different Nursery and Gardens.		30 Lectures	20

Suggested Readings:

1. Bose T.K. & Mukherjee, D., 1972, Gardening in India, Oxford & IBH Publishing Co., New Delhi.
2. Sandhu, M.K., 1989, Plant Propagation, Wile Eastern Ltd., Bangalore, Madras.
3. Kumar, N., 1997, Introduction to Horticulture, Rajalakshmi Publications, Nagercoil.
4. Edmond Musser & Andres, Fundamentals of Horticulture, McGraw Hill Book Co., New Delhi.
5. Agrawal, P.K. 1993, Hand Book of Seed Technology, Dept. of Agriculture and Cooperation, National Seed Corporation Ltd., New Delhi.
6. Janick Jules. 1979. Horticultural Science. (3rd Ed.), W.H. Freeman and Co., San Francisco, 76 USA.
7. Chavan, Y. Resource Book on Horticulture Nursery Management. National Agricultural Innovation Project, ICAR, New Delhi.
